State of Tennessee
Department of Environment and Conservation
Division of Air Pollution Control
William R. Snodgrass Tennessee Tower
312 Rosa L. Parks Avenue, 15th Floor
Nashville, TN 37243
Telephone: (615) 532-0554

NON-TITLE V PERMIT APPLICATION
FACILITY IDENTIFICATION

Please type or print and submit in duplicate for each emission source. Attach appropriate source description forms.

SITE INFORMATION

1. **Organization's legal name** Tennessee Department of Safety and Homeland Security		For APC use only	APC Company point no.
2. **Site name** (if different from legal name) Whiteville Radio Site			APC Log/Permit no.
3. **Site address** (St./Rd./Hwy.) 563 Main Street West			County name Hardeman
City or distance to nearest town Whiteville	Zip code 38075		4. NAICS or SIC code 922120
5. **Site location** (in lat./long.)	Latitude 35-19-16.3 N		Longitude 89-9-32.2 W

CONTACT INFORMATION (RESPONSIBLE PERSON)

6. **Responsible person/Authorized contact** Stephen Philyaw			Phone number with area code 615-365-1664
Mailing address (St./Rd./Hwy.) 225 Ezell Pike			Fax number with area code 615-360-8033
City Nashville	State TN	Zip code 37217	Email address stephen.philyaw@tn.gov

CONTACT INFORMATION (TECHNICAL)

7. **Principal technical contact** Stephen Philyaw			Phone number with area code 615-365-1664
Mailing address (St./Rd./Hwy.) 225 Ezell Pike			Fax number with area code 615-360-8033
City Nashville	State TN	Zip code 37217	Email address stephen.philyaw@tn.gov

CONTACT INFORMATION (BILLING)

8. **Billing contact** TN Dept. of Safety/Homeland Security-Fiscal Services Division-Christine Tyus			Phone number with area code 615-251-5138
Mailing address (St./Rd./Hwy.) 1150 Foster Ave			Fax number with area code 615-253-2652
City Nashville	State TN	Zip code 37243	Email address Christine.G.Tyus@tn.gov

EMISSION SOURCE INFORMATION

9. **Emission source no.** (number which uniquely identifies this source)
B150799367

10. **Brief description of emission source**
One (1) 50KW Propane Emergency Standby Generator, GM 5.0L, Cummings 50GGPC Date of Manufacture: February, 2015

11. **Normal operation:**	Hours/Day Emergency Use	Days/Week Emergency Use	Weeks/Year Emergency Use	Days/Year Emergency Use
12. **Percent annual throughput**	Dec. – Feb. 25%	March – May 25%	June – August 25%	Sept. – Nov. 25%

(Over)

TYPE OF PERMIT REQUESTED

13. Operating permit ( )	Date construction started	Date completed	Last permit no.	Emission source reference number

Construction permit (X)	Last permit no.	Emission source reference number
	None	B150799367

If you choose Construction permit, then choose either New Construction, Modification, or Location transfer

	New Construction (X)	Starting date: April, 2015	Completion date: June, 2015
	Modification ( )	Date modification started or will start	Date completed or will complete
	Location transfer ( )	Transfer date	Address of last location

14. Describe changes that have been made to this equipment or operation since the last construction or operating permit application:

None

SIGNATURE

Based upon information and belief formed after a reasonable inquiry, I, as the responsible person of the above mentioned facility, certify that the information contained in this application and any attached application(s) is accurate and true to the best of my knowledge. As specified in TCA Section 39-16-702(a)(4), this declaration is made under penalty of perjury.

15. **Signature** (application must be signed before it will be processed)		**Date**
Stephen Philyaw		3-26-15
Signer's name (type of print)	**Title**	**Phone number with area code**
Stephen Philyaw	Radio Systems Analyst	615-365-1664

Table of Pollution Reduction Device or Method Codes

Note: For cyclones, settling chambers, wet scrubbers, and electrostatic precipitators; the efficiency ranges correspond to the following percentages:
High: 95-99+%. Medium: 80-95% And Low: Less than 80%.
If the system has several pieces of connected control equipment, indicate the sequence. For example: 008'010.97%
If none of the below codes fit, use 999 as a code for other and specify in the comments.

No Equipment	000	Limestone Injection – Dry	041
Activated Carbon Adsorption	048	Limestone Injection – Wet	042
Afterburner – Direct Flame	021	Liquid Filtration System	049
Afterburner – Direct Flame with Heat Exchanger	022	Mist Eliminator – High Velocity	014
Afterburner – Catalytic	019	Mist Eliminator – Low Velocity	015
Afterburner – Catalytic with Heat Exchanger	020	Process Change	046
Alkalized Alumina	040	Process Enclosed	054
Catalytic Oxidation – Flue Gas Desulfurization	039	Process Gas Recovery	060
Cyclone – High Efficiency	007	Settling Chamber – High Efficiency	004
Cyclone – Medium Efficiency	008	Settling Chamber – Medium Efficiency	005
Cyclone – Low Efficiency	009	Settling Chamber – Low Efficiency	006
Dust Suppression by Chemical Stabilizers or Wetting Agents	062	Spray Tower (Gaseous Control Only)	052
Electrostatic Precipitator – High Efficiency	010	Sulfuric Acid Plant – Contact Process	043
Electrostatic Precipitator – Medium Efficiency	011	Sulfuric Acid Plant – Double Contact Process	044
Electrostatic Precipitator – Low Efficiency	012	Sulfur Plant	045
Fabric Filter – High Temperature	016	Vapor Recovery System (Including Condensers, Hooding and Other Enclosures)	047
Fabric Filter – Medium Temperature	017	Venturi Scrubber (Gaseous Control Only)	053
Fabric Filter – Low Temperature	018	Wet Scrubber – High Efficiency	001
Fabric Filter – Metal Screens (Cotton Gins)	059	Wet Scrubber – Medium Efficiency	002
Flaring	023	Wet Scrubber – Low Efficiency	003
Gas Adsorption Column -- Packed	050	Wet Suppression by Water Sprays	061
Gas Adsorption Column – Tray Type	051		
Gas Scrubber (General: Not Classified)	013		

Table of Emission Estimation Method Codes

Not application / Emissions are known to be zero	0
Emissions based on source testing	1
Emissions based on material balance using engineering expertise and knowledge of process	2
Emissions calculated using emission factors from EPA publications No. AP-42 Compilation of Air Pollution Emissions Factors	3
Judgment	4
Emissions calculated using a special emission factor different from that in AP-42	5
Other (Specify in comments)	6

State of Tennessee
Department of Environment and Conservation
Division of Air Pollution Control
William R. Snodgrass Tennessee Tower
312 Rosa L. Parks Avenue, 15th Floor
Nashville, TN 37243
Telephone: (615) 532-0554

NON-TITLE V PERMIT APPLICATION
EMISSION POINT DESCRIPTION

Please type or print and submit in duplicate for each stack or emission source. Attach to the Non-Title V Facility Identification Form (APC 100).

GENERAL IDENTIFICATION AND DESCRIPTION

1. Organization name Tennessee Department of Safety and Homeland Security		For APC use only	APC Company point no.
2. Emission source no. (As on Non-Title V Facility Identification Form) B150799267	Flow diagram point number		APC Log/Permit no.
3. Brief emission point description (Attach a sketch if appropriate): One (1) 50KW Propane Emergency Standby Generator, GM 5.0L, Cummings 50GGPC Date of Manu			Distance to nearest property line (Ft.)

STACK AND EMISSION DATA

4. Stack or emission point data: →	Height above grade (Ft.)	Diameter (Ft.)	Temperature (°F)	% of time over 125°F	Direction of exit (Up, down or horizontal)
	approximately 6 ft	.229	1204	100	UP

Data at exit conditions: →	Flow (actual Ft.³/Min.)	Velocity (Ft./Sec.)	Moisture (Grains/Ft.³)	Moisture (Percent)

Data at standard conditions: →	Flow (Dry std. Ft.³/Min.)	Velocity (Ft./Sec.)	Moisture (Grains/Ft.³)	Moisture (Percent)

5. Air contaminants	Actual emissions: Emissions (Lbs./Hr.) Average	Emissions (Lbs./Hr.) Maximum	Concentration	Avg. emissions (Tons/Yr.)	Emissions est. method code	Control devices *	Control efficiency%
Particulate matter			**				
Sulfur dioxide (SO_2)	____	____	***				
Carbon monoxide (CO)		8.73	PPM	2.61	6	000	
Organic compounds			PPM				
Nitrogen oxides (NO_X)		1.2	PPM	.360	6	000	
Fluorides							
Greenhouse gases (CO_2 equivalents)							
Hazardous air pollutant (specify)							
Hazardous air pollutant (specify)							
Other (specify)							
Other (specify)							
Other (specify)							

(Over)

6. Check types of monitoring and recording instruments that are attached: Opacity monitor ( ), SO_2 monitor ( ), NO_X monitor ( ), Other (specify in comments) ( )	
7. Comments Calculations derived using information provided from manufacturer.	
8. Control device or Method code description:	Description of operating parameters of device (flow rate, temperature, pressure drop, etc.):

* Refer to the tables below for estimation method and control device codes.

** Exit gas particulate matter concentration units: Process – Grains/Dry Standard Ft^3 (70^0F), Wood fired boilers - Grains/Dry Standard Ft^3 (70^0F), all other boilers – Lbs. /Million BTU heat input.

*** Exit gas sulfur dioxide concentrations units: Process – PPM by volume, dry bases, and boilers – Lbs. /Million BTU heat input

Table of Pollution Reduction Device or Method Codes
(Alphabetical listing)

Note: For cyclones, settling chambers, wet scrubbers, and electrostatic precipitators; the efficiency ranges correspond to the following percentages:
High: 95-99+%. Medium: 80-95% And Low: Less than 80%.
If the system has several pieces of connected control equipment, indicate the sequence. For example: 008'010.97%
If none of the below codes fit, use 999 as a code for other and specify in the comments.

No Equipment....000
Activated Carbon Adsorption....048
Afterburner – Direct Flame....021
Afterburner – Direct Flame with Heat Exchanger....022
Afterburner – Catalytic....019
Afterburner – Catalytic with Heat Exchanger....020
Alkalized Alumina....040
Catalytic Oxidation – Flue Gas Desulfurization....039
Cyclone – High Efficiency....007
Cyclone – Medium Efficiency....008
Cyclone – Low Efficiency....009
Dust Suppression by Chemical Stabilizers or Wetting Agents 062
Electrostatic Precipitator – High Efficiency....010
Electrostatic Precipitator – Medium Efficiency....011
Electrostatic Precipitator – Low Efficiency....012
Fabric Filter – High Temperature....016
Fabric Filter – Medium Temperature....017
Fabric Filter – Low Temperature....018
Fabric Filter – Metal Screens (Cotton Gins)....059
Flaring....023
Gas Adsorption Column -- Packed....050
Gas Adsorption Column – Tray Type....051
Gas Scrubber (General: Not Classified)....013
Limestone Injection – Dry....041
Limestone Injection – Wet....042
Liquid Filtration System....049
Mist Eliminator – High Velocity....014
Mist Eliminator – Low Velocity....015
Process Change....046
Process Enclosed....054
Process Gas Recovery....060
Settling Chamber – High Efficiency....004
Settling Chamber – Medium Efficiency....005
Settling Chamber – Low Efficiency....006
Spray Tower (Gaseous Control Only)....052
Sulfuric Acid Plant – Contact Process....043
Sulfuric Acid Plant – Double Contact Process....044
Sulfur Plant....045
Vapor Recovery System (Including Condensers, Hooding and Other Enclosures)....047
Venturi Scrubber (Gaseous Control Only)....053
Wet Scrubber – High Efficiency....001
Wet Scrubber – Medium Efficiency....002
Wet Scrubber – Low Efficiency....003
Wet Suppression by Water Sprays....061

Table of Emission Estimation Method Codes

Not application / Emissions are known to be zero....0
Emissions based on source testing....1
Emissions based on material balance using engineering expertise and knowledge of process....2
Emissions calculated using emission factors from EPA publications No. AP-42 Compilation of Air Pollution Emissions Factors....3
Judgment....4
Emissions calculated using a special emission factor different from that in AP-42....5
Other (Specify in comments)....6

State of Tennessee
Department of Environment and Conservation
Division of Air Pollution Control
William R. Snodgrass Tennessee Tower
312 Rosa L. Parks Avenue, 15th Floor
Nashville, TN 37243
Telephone: (615) 532-0554

NON-TITLE V PERMIT APPLICATION
PROCESS OR FUEL BURNING SOURCE DESCRIPTION

Please type or print and submit in duplicate and attach to the Non-Title V Facility Identification Form (APC 100).

GENERAL IDENTIFICATION AND DESCRIPTION

1. Organization name Tennessee Department of Safety and Homeland Security	For APC use only	APC Company – Point no.
2. Emission source no. (As on Non-Title V Facility Identification Form) B150729967		APC Log/Permit no.

3. Description of process unit

One (1) 50KW Propane Emergency Standby Generator, GM 5.0L, Cummings 50GGPC Date of Manufacture: February, 2015

PROCESS SOURCE DESCRIPTION AND DATA

4. Type of source	(Check only one option below)
Process Source: Apply for a separate Permit for each source. (Check at right and complete lines 5, 6, and 11)	( )
Process Source with in process fuel: Products of combustion contact materials heated. Apply for a separate permit for each source. (Check at right and complete lines 5, 6, and 8 through 11)	( )
Non-Process fuel burning source: Products of combustion do not contact materials heated. Complete this form for each boiler or fuel burner and complete a Non-Title V Emission Point Description Form (APC 101) for each stack. (Check at right and complete lines 7 to 11)	(X)

5. Type of operation: Continuous ( ) Batch ( )	Normal batch time	Normal batches/day

6. Process material inputs and In-process solid fuels	Diagram reference	Input rates (pounds/hour) Design	Actual
A. N/A			
B.			
C.			
D.			
E.			
F.			
G.			
Totals			

*** A simple process flow diagram must be attached.**

(Over)

BOILER, BURNER, GENERATOR, OR SIMILAR FUEL BURNING PROCESS DESCRIPTION

7. Boiler or burner data: (Complete lines 7 to 11 using a separate form for each boiler, burner, etc.)

Number	Stack number**	Type of firing***	Rated horsepower	Rated input capacity (10^6 BTU/Hr.)	Other rating (specify capacity and units)
01	1	Propane Spark ignited	79		50 KW

Serial no.	Date constructed	Date manufactured	Date of last modification (explain in comments below)
B150799367	Not Constructed Yet	February, 2015	None

** Source with a common stack will have the same stack number.
*** Cyclone, spreader (with or without reinjection), pulverized (wet or dry bottom, with or without reinjection), other stoker (specify type, hand fired, automatic, or other type (describe below in comments).

FUEL USED IN BOILER, BURNER, GENERATOR, OR SIMILAR FUEL BURNING SOURCE

8. Fuel data: (Complete for a process source with in process fuel or a non-process fuel burning source)

Primary fuel type (specify): Liquid Propane

Standby fuel type(s) (specify):

Fuels used	Annual usage	Hourly usage		% Sulfur	% Ash	BTU value of fuel		(For APC use only) SCC code
		Design	Average					
Natural gas:	10^6 Cu. Ft.	Cu. Ft.	Cu. Ft.	/ / / / / / / /	/ / / / /	1,000		
#2 Fuel oil:	10^3 Gal.	Gal.	Gal.		/ / / /			
#5 Fuel oil:	10^3 Gal.	Gal.	Gal.		/ / / /			
#6 Fuel oil:	10^3 Gal.	Gal.	Gal.		/ / / /			
Coal:	Tons	Lbs.	Lbs.					
Wood:	Tons	Lbs.	Lbs.	/ / / / / / / /	/ / / /			
Liquid propane:	10^3 Gal. Negligible	Gal.	Gal. 7.4	/ / / / / / / /	/ / / /	85,000		
Other (specify type & units):								

9. If Wood is used as a fuel, specify types and estimate percent by weight of bark

10. If Wood is used with other fuels, specify percent by weight of wood charged to the burner.

11. Comments

Standby Emergency Generator- usage depends of commercial power losses.